

# *—Standard Valves—*

4046-A  
Valve

## 4046-A VALVE

PENTODE.

### SPECIFICATION.

#### Cathode.

Indirectly heated oxide coated.

Constant voltage type.

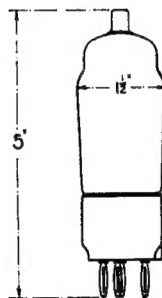
#### Base.

Standard British 5-pin. Anode connected to top cap type B.

Bulb metallised and connected to cathode.

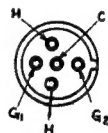
#### Dimensions.

|                     |                             |
|---------------------|-----------------------------|
| Max. overall length | $5\frac{1}{4}"$ (13.3 cms.) |
| Bulb diameter       | $1\frac{1}{2}"$ (3.8 cms.)  |
| Net weight          | 0.13 lbs. (60 gms.)         |



#### Constants.

|                        |                          |
|------------------------|--------------------------|
| Heater voltage         | 4 volts                  |
| Nominal heater current | 0.95 amp.                |
| * Impedance            | 800,000 ohms             |
| * Amplification factor | 2,400                    |
| Grid-anode capacity    | 0.007 $\mu\mu\text{F}$ . |
| Input capacity         | 10.7 $\mu\mu\text{F}$ .  |
| Output capacity        | 8 $\mu\mu\text{F}$ .     |



\* at  $V_p = 200$ ,  $V_{g_2} = 100$ ,  $V_{g_1} = -1.5$  Volts.

### LIMITING CONDITIONS FOR SAFE OPERATION.

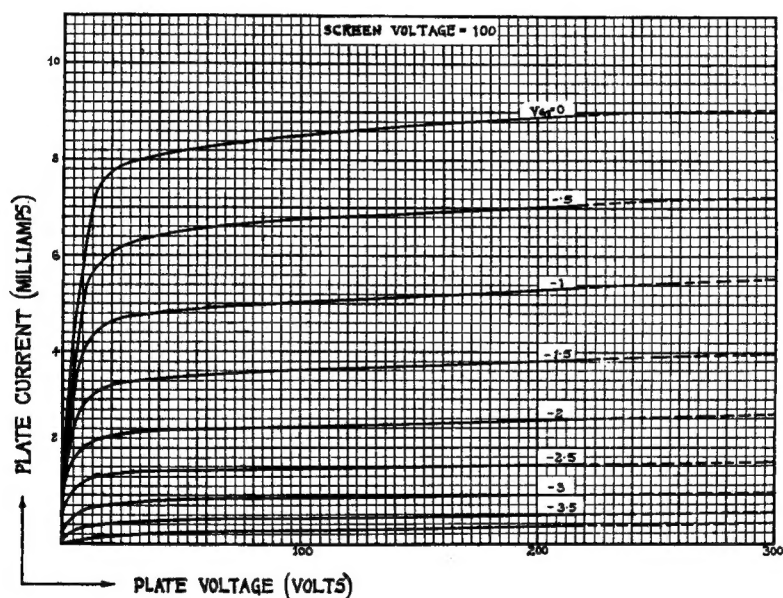
|                               |           |
|-------------------------------|-----------|
| Maximum direct anode voltage  | 250 volts |
| Maximum direct screen voltage | 100 volts |

V.4046-A.1  
Sept. 1938

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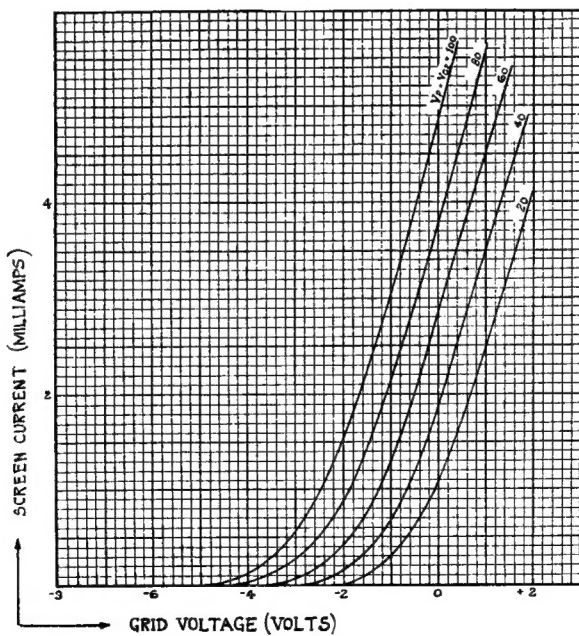
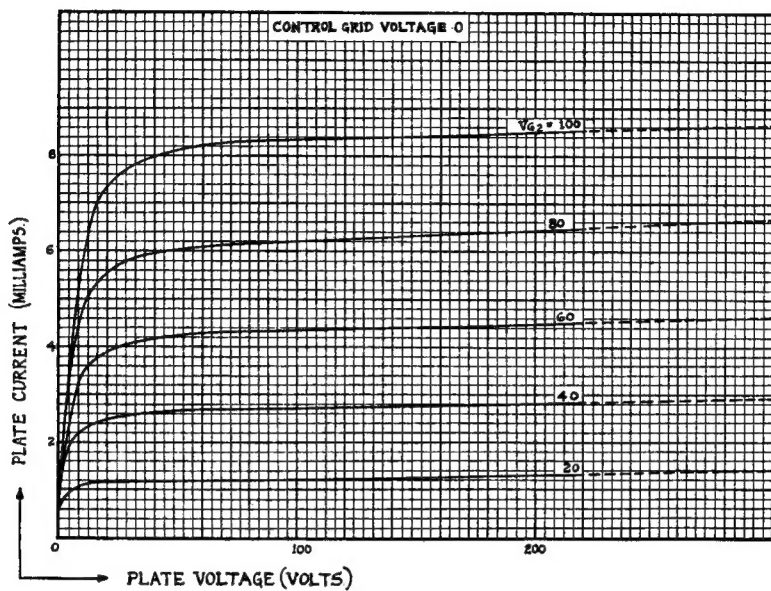
## TYPICAL OPERATING CONDITIONS.

|                     |         |         |              |
|---------------------|---------|---------|--------------|
| Anode voltage       | 250     | 200     | 150 volts    |
| Control grid bias   | —1.5    | —1.5    | —1.5 volts   |
| Screen grid voltage | 100     | 100     | 100 volts    |
| Anode current       | 3.9     | 3.8     | 3.7 mA.      |
| Anode resistance    | 800,000 | 800,000 | 800,000 ohms |
| Load                | 50,000  | 46,000  | 30,000 ohms  |
| Output              | 0.315   | 0.258   | 0.175 watts  |
| 2nd harmonic — %    | 8.6     | 8.75    | 11.5         |
| — db                | 21.3    | 20.7    | 19           |



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